

IN THE CLAIMS:

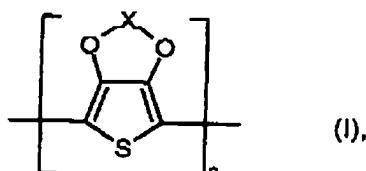
Please cancel Claims 6, 7 and 8.

1. (Currently Amended) A dispersion comprising polyanions and cationic 3,4-polyalkylenedioxythiophenes and water or a water/alcohol mixture as a solvent, wherein about 90% of the particles of the dispersion are less than 50 nm and wherein the resistivity of the coatings produced therefrom by building a dispersion film and removing the solvent from the dispersion film is at least is more than 5000 Ωcm, wherein the weight ratio of cationic 3,4-polyalkylene-dioxythiophene to polyanion have a ratio ranging from between about 1:8 and about 1:25 and which was treated by high pressure homogenization applying a pressure from 100 to 1000 bar.

2. (Currently Amended) The dispersion according to Claim 1, wherein at least about 90% of the particles are less than about 40 nm.

3. (Cancelled)

4. (Previously Presented) The dispersion according to Claim 1, wherein the 3,4-polyalkylenedioxythiophenes are compounds of the formula (I)



wherein

n is an integer from 3 to 100, preferably from 4 to 15, and

X is $-(\text{CH}_2)_x-\text{CR}^1\text{R}^2-(\text{CH}_2)_y-$, where

R¹ and R², independently of one another, are H, an alkyl radical having from 1 to 20 carbon atoms, an aryl radical having from 6 to 14 carbon atoms or $-\text{CH}_2-\text{OR}^3$, where R³ is H, alkyl or $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{SO}_3\text{H}$, and

x and y are each, independently of one another, an integer from 0 to 9.

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5. (Original) The dispersion according to Claim 1, wherein the dispersion is a 3,4-polyethylenedioxythiophene/polystyrene sulfonate dispersion.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Previously Presented) A dispersion according to Claim 4, wherein n is an integer from 4 to 15.